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Techniques for obtaining high performance in Java programs

Iffat H. Kazi, Howard H. Chen, Berdenia Stanley, David J. Lilja

ACM Computing Surveys (CSUR) September 2000

ACM Computing Surveys (CSUR) September 2000

Volume 32 Issue 3

This survey describes research directions in techniques to improve the performance of programs written in the Java programming language. The standard technique for Java execution is interpretation, which provides for extensive portability of programs. A Java interpreter dynamically executes Java bytecodes, which comprise the instruction set of the Java Virtual Machine (JVM). Execution time performance of Java programs can be improved through compilation, possibly at the expense of portabili ...

2 A brief history of just-in-time

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85%

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John Aycock

ACM Computing Surveys (CSUR) June 2003

Volume 35 Issue 2

Software systems have been using "just-in-time" compilation (JIT) techniques since the 1960s. Broadly, JIT compilation includes any translation performed dynamically, after a program has started execution. We examine the motivation behind JIT compilation and constraints imposed on JIT compilation systems, and present a classification scheme for such systems. This classification emerges as we survey forty years of JIT work, from 1960--2000.

3 Efficient Java exception handling in just-in-time compilation Seungll Lee , Byung-Sun Yang , Suhyun Kim , Seongbae Park , Soo-Mook Moon , Kemal Ebcioğlu , Erik Altman

Pr ceedings f the ACM 2000 c nference n Java Grande June 2000



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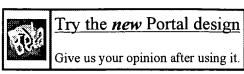
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<u>L16</u>	14 and double	0	<u>L16</u>
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1 Techniques for obtaining high performance in Java programs

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Proceedings of the 15th international conference on Supercomputing June 2001

State of the art Java Virtual Machines with Just-In-Time (JIT) compilers make use of advanced compiler techniques, run-time profiling and adaptive compilation to improve performance. However, these techniques for alleviating performance bottlenecks are more effective in long running workloads, such as server applications. Short running Java programs, or client workloads, spend a large fraction of their execution time in compilation instead of useful execution when run using JIT compilers. In ...

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